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| Application/Control No. | Applicant(s)/Patent under Reexamination  YAMAMOTO ET AL |  |  |  |  |  |  |  |
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| 10/816,063              |   |  |  |  |  |  |  |  |
| Examiner                | Art Unit  |  |  |  |  |  |  |  |
| Brian T. Misiura        | 2112  |  |  |  |  |  |  |  |

| <b>√</b> | Rejected |  |
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| C  |          | Date                      |  |                |                 | Date Claim L Date |  |          |              |          |            |  | $\neg$         | Claim Date |                |              |                                |          |              |          |          |                 | ٦        |                 |          |                     |          |          |          |
|--|----------|---------------------------|--|----------------|-----------------|-------------------|--|----------|--------------|----------|------------|--|----------------|------------|----------------|--------------|--------------------------------|----------|--------------|----------|----------|-----------------|----------|-----------------|----------|---------------------|----------|----------|----------|
| Cla  | aum<br>T |                           |  |                |                 |                   |  |          |              | $\dashv$ |            |  |                |            |                |              |                                | Т        | Т            | ᅱ        |          |                 |          |                 |          |                     |          |          |          |
| l _  | ā        | 83                        | 5  |                |                 |                   |  | J        | 1_           | Original | 0          | 23/06  |                |            |                | 1            | 1 1                            |          |              | Originat |          | - 1             | ]        | J               | - 1      |                     | - [      |          | Į        |
| Final  | Original | 79)                       |  | - 1            |                 |                   |  | - 1      | Final        | 틆        | 9          | 5  |                |            |                |              |                                |          | Final        | 튭        |          |                 | - 1      | ļ               | - 1      |                     |          |          | Į        |
| iĒ   | .Ę,      | =                         | <u> </u>   | - 1            | - }             |                   | H  | 1        | iĒ           | Ę        | 7          | 12   | LΙ             |            |                |              | 1 1                            |          | <u>i</u>     | ٦        |          |                 | l        | -               |          |                     |          |          |          |
|  | 0        | 19/21                     | 7  | - [.           | .               |                   |  |          |              | ·        | -          | 3  |                |            |                |              |                                |          |              |          |          |                 | . ]      |                 |          |                     |          |          |          |
|  | 1        | 7                         | <del>/</del>                                       | $\neg$         | $\dashv$        | _                 |  | _        |              | 51       | 7          | 0  |                | $\neg$     | $\neg$         | 1            |                                | 7        |              | 101      |          | $\neg$          | $\neg$   |                 | $\Box$   |                     |          | 7        | $\neg$   |
| <del>                                     </del> | 2        | Ž                         | +  | -+             | -               | +                 | $\vdash$   | $\dashv$ |              | 52       | げ          | ŏ  |                | $\dashv$   | 1              | _            |                                | ┪.       |              | 102      |          |                 | ╗        | _1              |          | •                   | $\neg$   | Ŧ        | ٦        |
|  | _        | Ϋ́                        |  | -+             | ┥.              | ╌                 | $\vdash$   | $\dashv$ | <b></b>      | 53       |            | 0  | -              | +          | +              | +            | $\vdash$                       |          | $\vdash$     | 103      |          |                 | $\neg$   | ┪               | 一        | _                   | _        | $\neg$   | Н        |
| Ь—   | 3        |                           |  | <del></del>    | <del>- </del> - | -                 | ⊢  |          | -            |          | <b>Y</b> / | 7  | ┝╼┼            | -          | +              | ┿            | ╁                              | ⊣        | $\vdash$     | 104      | _        | -               | $\dashv$ | -1              | -        | $\dashv$            | -+       | $\dashv$ | $\dashv$ |
|  | 4        | $\sqrt{c}$                |  | -              | -               | +-                | $\vdash$   |          |              | 54       |            | Y,   | $\vdash$       |            | -              | +            | $\vdash$                       |          | -            |          | -        | $\dashv$        | -        | -               | 一        | -                   | -+       | +        | $\dashv$ |
|  | 5        | V C                       |  |                | _               | ┩                 | $\sqcup$   |          |              | 55       | V          | V.   | -              |            | -              | 4-           | $\vdash$                       |          | -            | 105      | _        |                 | _        | -               |          | -+                  | $\dashv$ | +        | -        |
|  | 6        | <b>V</b>                  |  | _              |                 |                   | $\sqcup$   |          | <u> </u>     | 56       | V,         | Q  | -              | 4          |                | <del> </del> | <u> </u>                       | 4        | -            | 106      |          |                 | _        |                 | -        |                     | -        | -        | _        |
| L  | 7        | 10                        |  |                |                 |                   | Ш  |          |              | 57       | V.         | 0  | Ш              |            |                | ٠.           | 1                              | _        | ļ            | 107      |          |                 |          | _               | _        | _                   | _        | _        | _        |
|  | 8        | 10                        | $\Box$   | $\neg \Gamma$  | Т               |                   |  |          |              | 58       | V          | 0  |                |            |                | 1            |                                |          |              | 108      |          |                 |          |                 | _        |                     | _        | $\perp$  |          |
|  | 9        | 70                        | $\Pi$  |                | $\neg$          |                   | П  | 7        |              | 59       | 7          | V  | H              |            | ľ              | 1            |                                |          | 1            | 109      |          |                 |          |                 |          |                     |          |          |          |
| <u> </u>   | 10       | o c                       | カー   | _              | _               | 1                 | П  | 7        |              | 60       | V          | O  | П              | Т          |                | 7            | П                              |          |              | 110      |          |                 | . ]      |                 |          |                     |          |          |          |
| $\vdash$   | 11       | 70                        |  | $\dashv$       | ╅               | +-                | $\vdash$   | _        |              | 61       | 1.7        | Ď  | $\Box$         | $\neg$     | $\neg$         | $\top$       | $\sqcap$                       | $\neg$   |              | 111      |          |                 |          | $\neg$          | $\neg$   | $\neg$              | T        | T        | ٦        |
| <del></del>                                      | 12       | 7/14                      | <del>/  </del>                                     | ┰┼             | +               | +-                | <del>                                     </del>   | $\dashv$ | -            | 62       | 乄          | 0  |                | 十          | +              | 1            | † †                            | $\dashv$ |              | 112      | М        |                 |          | 7               | $\dashv$ | 寸                   | $\neg$   | $\neg$   | ᅱ        |
|  |          | <b>Y/!Y</b>               | <del>} </del>                                      | -+             | +               | +                 | ┢  | $\dashv$ | <b></b>      | 63       | 乄          |  | $\vdash$       | ┰          | +              | +-           | ┰                              | $\dashv$ | <b>—</b>     | 113      | Н        | $\vdash$        |          | 一               | 十        | $\dashv$            | 一        | 十        | _        |
| ├  | 13       | <b>4</b> /2               |  |                |                 | +                 | ╁╌┼  | $\dashv$ | <del></del>  |          | 17         | 볼  | ┞╌╂            | +          | +              | ╢            | ╁╌┼                            | ⊣        |              | 114      | H        | $\vdash$        |          | -               | $\dashv$ | -                   | ┪        | $\dashv$ | _        |
| <u> </u>   | 14       | $\sqrt{0}$                |  | -              | -               |                   | ⊢  |          |              | 64       | ĮΥ,        |  |                | +          | +              | <del> </del> | ╁╾┼                            | $\dashv$ |              | 115      | Н        | -               | $\vdash$ | $\dashv$        | $\dashv$ | -                   | $\dashv$ | +        | $\dashv$ |
|  | 15       | 10                        |  |                |                 |                   | $\sqcup$   |          |              | 65       | V,         | ٤  | $\vdash$       | -          |                |              | $\vdash$                       | 4        | <u> </u>     |          |          | -               | -4       | -               | $\dashv$ | -                   | $\dashv$ | +        | $\dashv$ |
| <u></u>  | 16       | Vc                        |  |                | _ _             |                   | $\sqcup$   | _        | <u> </u>     | 66       | ¥          | 11 11  | $\sqcup$       | +          | +              | 4            | ╁╌╂                            |          | <u> </u>     | 116      |          | $\vdash \vdash$ |          |                 | -        | -                   | $\dashv$ | -        | -        |
|  | 17       | ZV                        | 4  |                | $\perp$         |                   | $\sqcup \bot$  |          | ļ            | 67       | 0          | 三  | Ш              | _          | _ļ             |              | ┰                              |          |              | 117      |          | $\sqcup$        |          | _               |          | _                   | 4        | $\dashv$ | _        |
|  | 18       | 70                        | $\neg \Box$  |                |                 | Ĭ                 |  |          |              | 68       | V          | 13   | $\Box$         |            | ᆚ              |              | Ш                              | _        |              | 118      | Ŀ        |                 |          |                 | _        | _                   | _        | $\perp$  | _        |
|  | 19       | 10                        |  | $\neg$         | Т               | T                 |  |          |              | 69       | V.         | =  | LJ             | $\Box$     | $\perp \Gamma$ |              | Ш                              |          |              | 119      |          |                 |          |                 | 丄        |                     | _].      | _        | _        |
|  | 20       | Vc                        |  |                |                 | $\top$            |  |          |              | 70       | V          | =  |                |            |                |              |                                |          |              | 120      |          |                 |          |                 |          |                     |          |          |          |
| <b>├</b> ─                                       | 21       | o c                       |  | -              | $\top$          | 1                 |  | $\neg$   |              | 71       | 0          | =  | П              | 7          |                | T            | П                              |          |              | 121      |          |                 |          |                 | ▔▔       |                     | _T       | _T       | _        |
| <del></del>                                      | 22       | 7 2                       | 51-1   | $\dashv$       | +               | +-                | -  |          |              | 72       | 乙          | =  | $\sqcap$       | 十          | $\neg$         | 1            | 1-1                            | $\neg$   |              | 122      |          |                 |          |                 | $\neg$   |                     |          | $\neg$   |          |
| $\vdash$   | 23       |                           |  | $\dashv$       |                 | +                 | $\vdash$   | -        | -            | 73       | V.         | =  | 1-1            | $\dashv$   | _              | +-           | 1-1                            | $\dashv$ |              | 123      |          |                 |          | $\neg$          | $\neg$   |                     |          | $\dashv$ | _        |
|  |          | <del> </del>              | H  |                |                 | ╅                 | 1 -  |          | -            | 74       | ₩/         | =  | ╁╼┼            | $\dashv$   |                | -            | ╀╌╂                            | $\dashv$ | -            | 124      | Н        | Н               | _        |                 | -        | $\neg$              | ┪        | 1        |          |
|  | 24       | $\mathbb{Z}^{\mathbb{Z}}$ | $\Box$   |                |                 | +                 | -  |          | -            | _        | K.         | Ξ  | ⊢              | -+         | -              | +-           | ↤                              |          |              | 125      | -        | Н               | $\dashv$ | -               | $\dashv$ | -                   | -+       | +        | _        |
|  | 25       | $ \mathbf{V} ^{Q}$        |  | _              | _               | 4                 | ₩  |          | <u> </u>     | 75       | D.         | =  | ┨              | +          |                | +-           | ╂╼╂                            |          | <b></b>      |          |          | $\vdash$        | $\dashv$ | $\dashv$        |          |                     | -        | +        |          |
|  | 26       | V 0                       |  | _              | _ _             |                   | $\sqcup$   | _        |              | 76       | Ļ          | ↓_   | Ш              | -          | 4              |              | ┦                              | -        | -            | 126      |          |                 | Н        | $\vdash$        | $\dashv$ | $\dashv$            | -+       | +        | -        |
|  | 27       | V 0                       |  |                | $\perp$         |                   | $\sqcup$   | _        |              | 77       | ╀          | ╙  | $\sqcup$       | 4          | -              | 4            | $\vdash$                       | _        | <b>⊢</b>     | 127      | _        | $\vdash$        | Щ        | $\dashv$        | $\dashv$ | -                   | -        | +        |          |
|  | 28       | VΙV                       |  |                |                 | _L_               |  |          |              | 78       | Ľ          | L  | Ш              | _          | _              |              | $\sqcup$                       | _        | <u> </u>     | 128      |          |                 |          | _               | _        |                     | _        | -        | _        |
|  | 29       | 70                        |  |                |                 |                   |  |          |              | 79       |            |  | Ш              |            |                |              |                                | _        | L_           | 129      |          | Ш               |          |                 | _        |                     | _        | _        | _        |
|  | 30       | VO                        |  |                | 7               | T                 | П  |          |              | 80       |            |  |                |            |                |              |                                |          |              | 130      |          |                 |          |                 |          |                     |          | $\perp$  |          |
|  | 31       | 10                        |  | 7              | $\neg$          | $\neg$            | 1 1  | ╗        |              | 81       | T          | Г  | П              | Т          | T              | T            |                                |          |              | 131      |          |                 |          |                 |          |                     |          | $\prod$  |          |
| <b></b>  | 32       | o o                       |  | $\neg \dagger$ | -               | $\top$            | 1-1  | $\dashv$ |              | 82       | 1          | 1  | $\sqcap$       | 丁          | 十              | 1            | $\Box$                         | $\neg$   |              | 132      |          | П               |          | $\neg$          |          | П                   | T        | Т        |          |
|  | 33       | 100                       |  | $\dashv$       | $\dashv$        | +-                | +  | $\dashv$ | <b>—</b>     | 83       | †          | T  | $\vdash$       | 十          | 十              | 1            | +                              | $\neg$   |              | 133      |          | П               | П        | $\neg$          | $\neg$   |                     | 7        | 7        | _        |
| -  | 34       | _                         |  | $\dashv$       |                 | +                 | ┧┈┤  | $\dashv$ | <del> </del> | 84       | +-         | <del>                                     </del> | ╅              | 十          | -+             | +            | +                              |          | 1            | 134      | $\vdash$ | $\vdash$        | Н        | ш               | $\dashv$ | 一                   | _        | 7        | _        |
| $\vdash$   |          |                           | _  | $\dashv$       | +               | +                 | ╁╼╂  | $\dashv$ | -            | 85       | +-         | 1  | ╁╌┼            | +          | -              | +-           | +                              | $\dashv$ |              | 135      | $\vdash$ | $\vdash$        | Н        | $\dashv$        | _        | -                   | -        | +        | _        |
|  | 35_      | V) Y                      | _  | -              | +               |                   | ╁┼   | -        | -            |          | +          | -  | ╁╌┤            | +          | +              | +            | ╁┼                             | $\dashv$ | <b>—</b>     | 136      | -        | $\vdash \vdash$ | Н        | $\dashv$        | $\dashv$ | ⊢-∤                 | -+       | -+       | -        |
| <u> </u>   | 36       | 1/2                       | 21-1   | _              |                 | -1-               | $\sqcup$   | _        |              | 86       |            | ⊢  |                | $\dashv$   | _              | +-           | $\vdash$                       |          |              |          | -        | $\vdash$        | Н        | $\dashv$        | $\dashv$ | $\dashv$            |          | +        | _        |
| L  | 37       | VC                        |  |                | 4               |                   | $\sqcup$   | _        | L-           | 87       | ╀          | <b>!</b>   |                | _          | _              | 4_           | $\vdash$                       | _        | ļ            | 137      |          | $\vdash$        | Щ        | Щ               | _        | $\dashv$            |          | -        |          |
| L  | 38       | 10                        |  |                |                 |                   | $\sqcup$   | _        |              | 88       | _          | <u> </u>   | Ш              |            | $\perp$        | ۰            | $\sqcup$                       | 4        | <u> </u>     | 138      | _        | Ш               | Ш        |                 | _        | Ш                   | ╧        | _        |          |
|  | 39       | VV                        | 7[7]   |                |                 |                   | $\Box$   |          |              | 89       |            | L  | Ш              |            | $\perp$        | 1            | Ш                              |          |              | 139      |          | Ш               |          |                 | ᅵ        | Ш                   | $\perp$  |          |          |
|  | 40       | Vic                       | 5  | $\neg$         | _               |                   | $\Box$   |          |              | 90       |            | Γ  | П              | Т          | T              |              |                                | _]       |              | 140      |          |                 |          |                 |          |                     |          |          |          |
|  | 41       | ZO                        |  | $\neg$         | $\top$          | 1                 | 1  | 7        |              | 91       | 1          | Π  | $\Box$         | T          | 7              | $\top$       |                                | $\neg$   |              | 141      | Ī        |                 |          |                 | П        |                     |          | T        |          |
| <b></b>  |          | 70                        |  | 1              | 十               | $\top$            | 1 1  | $\dashv$ |              | 92       | 1          | Т  | $\Box$         | 十          | +              | 1            |                                | 7        |              | 142      | $\Box$   | П               | М        |                 | $\neg$   |                     |          | T        |          |
|  | 13       | 70                        | +  | -              | -+-             | +-                | ╅  |          | -            | 93       | +-         | ╁  | 1-1            | $\dashv$   | $\top$         | +-           | 1 1                            | ٦.       | <b> </b>     | 143      | $\vdash$ | М               | М        | $\Box$          | $\neg$   |                     | $\neg$   | _        | _        |
|  |          |                           |  | $\dashv$       | -+-             | +-                | ┼-┼  | $\dashv$ |              | 94       | ╁          | 1  | <del>   </del> | -+         |                | +-           | 1 1                            | -1       | 1            | 144      | $\vdash$ | $\vdash$        | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$            | _        | +        | _        |
| <u> </u>   | 44       | V                         | <del>',                                     </del> |                | -               | +                 | ╁┼┤  | $\dashv$ | -            |          | +          | +-   | ┝╌┤            | $\dashv$   | -+             | +            | 1-                             | $\dashv$ | <del> </del> | 145      |          | $\vdash$        | Н        | Н               | $\dashv$ | $\dashv$            | +        | $\dashv$ | _        |
|  | 45       | $\nabla_{\mathbf{v}}$     | 44   | _              |                 | +-                | ↤  |          | 1-           | 95       | ╄          | <del> </del>                                     | ╁╌┼            | -          | +              |              | $\vdash$                       | $\dashv$ | -            |          | ├-       | $\vdash$        | Н        | $\vdash$        | $\dashv$ | $\dashv$            |          | +        | _        |
| <u></u>  | 46       | Vζ                        | 21_1   |                | 4               | 4                 | 1  | _        |              | 96       | ╄          | 1  | $\sqcup$       | _          | -              | +            | ┨                              |          |              | 146      | ⊢        | $\vdash$        | Н        | $\vdash \vdash$ |          |                     |          | -+       | _        |
|  | 47       | VC                        | Ш  |                | $\bot$          |                   | $\sqcup$   | _        |              | 97       | 1          | <u> </u>   | $\sqcup$       |            | 4              | 4            | $\sqcup$                       | 4        | <u> </u>     | 147      | <u> </u> | $\vdash$        | Ш        | Щ               |          | $\vdash \downarrow$ | -        | -        | _        |
|  |          | 10                        |  |                |                 |                   | $oldsymbol{ol}}}}}}}}}}}}}}}}$ |          |              | 98       |            | L  | $\Box$         |            | $\perp$        | $\perp$      | $oldsymbol{oldsymbol{\sqcup}}$ |          |              | 148      | <u> </u> | Ш               | Щ        | Ш               | ᆚ        | Щ                   | 4        | 4        |          |
|  |          | N.                        |  |                |                 |                   | П  |          |              | 99       |            |  |                | $\Box$     | $\Box$         |              | $\Box$                         | _]       |              | 149      | L        | $\square$       | $\Box$   |                 |          |                     |          | $\perp$  |          |
|  | 50       | VC                        | 7  | $\Box$         | 7               |                   | $\Box$   |          |              | 100      |            | Γ  | П              | Т          |                | 1            |                                |          |              | 150      | L        |                 |          | ╚               |          |                     | [        |          | _ ]      |
|  |          |                           |  |                |                 |                   |  |          |              |          |            |  |                |            |                |              |                                |          |              |          |          |                 |          |                 |          |                     |          |          |          |